

ANTIMONY - NORTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Antimony	1.416	1.779	36	0.953	0.878	10

Calculated Difference = 0.463
 Standard Error of the Difference = 0.513084318
 Degree of Freedom = 44
 t = 0.902385794
 p = 0.1859
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

ARSENIC - NORTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Arsenic	2.573	1.369	36	3.438	1.792	10

Calculated Difference = 0.865
 Standard Error of the Difference = 0.656788524
 Degree of Freedom = 44
 t = 1.317014486
 p = 0.0973
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically less than background mean

BARIUM - NORTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Barium	142.1	95.9	36	333.1	288.1	10

Calculated Difference = 191
 Standard Error of the Difference = 94.02738869
 Degree of Freedom = 44
 t = 2.031323029
 p = 0.0242 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = Yes site surface soil mean is statistically less than background mean

CADMIUM - NORTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Cadmium	0.193	0.239	36	0.0311	0.0398	10

Calculated Difference = 0.1619
 Standard Error of the Difference = 0.059316632
 Degree of Freedom = 44
 t = 2.729419974
 p = 0.0045 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = Yes site soil mean is statistically greater than background mean

CHROMIUM - NORTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Chromium	17.17	19.6	36	15.2	3.02	10

Calculated Difference = 1.97
 Standard Error of the Difference = 4.848678898
 Degree of Freedom = 44
 t = 0.406296239
 p = 0.3432
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

COPPER - NORTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Copper	18.7	31.9	36	12.12	3.955	10

Calculated Difference = 6.58
 Standard Error of the Difference = 7.837321881
 Degree of Freedom = 44
 t = 0.83957251
 p = 0.2028
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

LEAD - NORTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Lead	37.8	80.99	36	13.43	1.547	10

Calculated Difference = 24.37
 Standard Error of the Difference = 19.6490511
 Degree of Freedom = 44
 t = 1.240263455
 p = 0.1108 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = No site surface soil mean is not statistically greater than background mean

LITHIUM - NORTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Lithium	18.84	5.952	36	21.14	5.166	10

Calculated Difference = 2.3
 Standard Error of the Difference = 2.180058677
 Degree of Freedom = 44
 t = 1.055017475
 p = 0.1486
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically less than background mean

MANGANESE - NORTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Manganese	347	204.1	36	377.4	93.75	10

Calculated Difference = 30.4
 Standard Error of the Difference = 57.70014591
 Degree of Freedom = 44
 t = 0.526861753
 p = 0.3005 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = No site surface soil mean is not statistically less than background mean

MERCURY - NORTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Mercury	0.0094	0.0124	36	0.0213	0.00479	10

Calculated Difference = 0.0119
 Standard Error of the Difference = 0.00336736
 Degree of Freedom = 44
 t = 3.533925295
 p = 0.0005 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = Yes site soil mean is statistically less than background mean

MOLYBDENUM - NORTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Molybdenum	0.586	1.788	36	0.522	0.0739	10

Calculated Difference = 0.064
 Standard Error of the Difference = 0.434282915
 Degree of Freedom = 44
 t = 0.147369371
 p = 0.4417
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

ZINC - NORTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Zinc	242.5	929.4	36	247	364.6	10

Calculated Difference =	4.5	
Standard Error of the Difference =	253.1879948	
Degree of Freedom =	44	
t =	0.017773355	
p =	0.4929	calculated at www.stat.tamu.edu/~west/applets/tdemo.html
Data sets significantly different =	No	site soil mean is not statistically less than background mean